

BILL OF QUANTITIES

TITLE OF THE CONTRACT: ELECTRIFICATION OF TJIANE VILLAGE (85 STANDS)

Contractor:		Employer:	Lepelle Nkumpi Municipality
VAT No.:		VAT NO.	4320213251
Contact Person:		Contact Person:	Mr. Phasha Tebogo
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		Contract No.	

Item	Description	Amount		
		Materials	Labour	Total Price
A	Preliminaries & General			
B	Pegging out the works			
C	Digging Holes			
D	Plant poles			
E	MV Structures			
F	MV Stays			
G	LV Structures			
H	LV Stays			
I	Service Boxes			
J	Stringing			
K	Transformer Installation			
L	Installation of Earthing			
M	Pole Numbering			
N	Commissioning			
O	Other			
P	House Connections			
Q	Excavate and plant poles			
R	Conductor			
S	General			
		R	R	R

Total Bid Price VAT excluding	R
5% Contigencies	R
Sub Total Incl Contigencies	R
Add 15% VAT	R
Total VAT Inclusive	R

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Item	Description	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
A	Preliminaries & General								
1	Transport materials on site	Sum	1		-	-		-	
2	25-Ton Truck (Lowbed)	km	1000		-	-		-	
3	8-Ton Crane truck	Mth	2		-	-		-	
4	8-Ton Crane Truck 4 X 4	Mth	2		-	-		-	
5	2-Tonner Ldv	Mth	2		-	-		-	
6	1-Tonner Ldv	Mth	2		-	-		-	
7	Fuel	Mth	2		-	-		-	
8	Site establishment	Sum	1		-	-		-	
9	Site store & storeman	Mth	2		-	-		-	
10	Site office	Mth	2		-	-		-	
11	Staff food & accommodation	Mth	2		-	-		-	
12	Security	Mth	-	-	2		-		
13	Supervision	Mth	-	-	2		-		
14	Additional 24 Hr Security December Holidays	day	-	-	-	-	-	-	-
15	Health & Safety Requirements by Eskom	Sum	-	-	1		-		
SUB-TOTAL									
B	Pegging out the works	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	MV Pegging - excl bush clearing and tree felling	km	-	0,00	1		-		
2	LV Pegging - excl bush clearing and tree felling	km	-	0,00	2,2		-		
SUB-TOTAL							0,00		

C	Digging Holes	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	LV stay back-actor or hand	e.a.		-	10		-		
2	Rock Drill	e.a.		-	10		-		
3	Compressors	e.a.		-	5		-		
4	MV stay back-actor or hand	e.a.		-	4		-		
5	Rock Drill	e.a.		-	3		-		
6	Compressors	e.a.		-	1		-		
7	7m Pole back-actor or hand	e.a.		-	20		-		
8	Rock Drill	e.a.		-	15		-		
9	Compressors	e.a.		-	5		-		
10	9m Pole back-actor or hand	e.a.		-	10		-		
11	Rock Drill	e.a.		-	8		-		
12	Compressors	e.a.		-	4		-		
13	11m Pole back-actor or hand	e.a.		-	7		-		
14	Rock Drill	e.a.		-	5		-		
15	Compressors	e.a.		-	4		-		
16	13m Pole back-actor or hand	e.a.		-	3		-		
17	Rock Drill	e.a.		-	2		-		
18	Compressors	e.a.		-	1		-		
SUB-TOTAL					117		0,00		
D	Plant poles	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	7m Wood 120-140mm tops	e.a.	40		40				
2	9m Wood 140-160mm tops	e.a.	22		22				
3	9m Wood 160-180 mm tops	e.a.	-		-		-	-	-
4	10m Wood 160-180mm tops	e.a.	-		-		-	-	-
5	10m Wood 180-200mm tops	e.a.	-		-		-	-	-
6	11m Wood 160-180mm tops	e.a.	-		-		-	-	-
7	11m Wood 180-200mm tops	e.a.	16		16				
8	12m Wood 180-200mm tops	e.a.	-		-		-	-	-
9	13m Wood 180-200mm tops	e.a.	6		6				
SUB-TOTAL					84				

E	THREE PHASE	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	Int ass vertical (1-10 deg)	e.a.	15		15				
2	Int ass stag vertical (0 deg)3ph	e.a.	0		0				
3	T-off ass int vert	e.a.	4		4				
4	Susp ass vert (10-30 deg)	e.a.	1		1				
5	Strain ass vertical (30-90 deg)	e.a.	2		2				
6	Terminal ass vert	e.a.	4		4				
7	In-line strain vert	e.a.	0		0		0,00	0,00	0,00
SUB-TOTAL					26				
F	MV Stays	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	1 Off conv anchor	e.a.	8		8				
2	1 Off flying stay	e.a.	1		1				
3	1 Off strut pole 11m	e.a.	2		2				
SUB-TOTAL									
G	LV Structures	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	Int / susp (0-30 deg) - DDT 1100	e.a.	30		30				
2	Intermediate service	e.a.	0		0				
3	Strain (0-60 deg) - DDT 1121	e.a.	10		10				
4	Strain (60-90 deg) - DDT 1122	e.a.	10		10				
5	Terminal - DDT 1120	e.a.	20		20				
6	T-off from interm - DDT 1140	e.a.	8		8				
7	T-off from strain - DDT 1142	e.a.	0		0				
8	Cross int-int ass - DDT 1141	e.a.	2		2				
9	Cross int-strain ass - DDT 1143	e.a.	0		0		0,00	0,00	0,00
SUB-TOTAL					80				
H	LV Stays	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	1 Off conv anchor	e.a.	25		25				
2	1 Off flying stay	e.a.	0		0		0,00	0,00	0,00
3	1 Off strut pole 7m	e.a.	15		15				
SUB-TOTAL					40				

I	Service Boxes	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1A	1 - 4 Way box : 1 x 63 A mcb	e.a.	38		38				
2B	5 - 8 Way box : 2 x 63 A mcb	e.a.	0		0		0,00	0,00	0,00
SUB-TOTAL									
J	Stringing	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	Squirrel conductor	m	0		0		0,00	0,00	
2	Fox conductor	m	3000		3000				
3	Mink conductor	m	0		0		0,00	0,00	0,00
4	35 mm sq ABC 1-ph	m	0		0		0,00	0,00	0,00
5	35 mm sq ABC 2- ph	m	1500		1500				
6	35 mm sq ABC 3-ph	m	0		0		0,00	0,00	0,00
7	70 mm sq ABC 1-ph	m	0		0		0,00	0,00	0,00
8	70 mm sq ABC 2-ph	m	1100		1100				
9	70 mm sq ABC 3-ph	m	0		0		0,00	0,00	0,00
10	MV Mink full tension joint	e.a.	0		0		0,00	0,00	0,00
11	LV joint 35 mm full tension	e.a.	3		3				
12	LV joint 70 mm full tension	e.a.	6		6				
SUB-TOTAL									
K	Transformer Installation	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
	Transformers: 22kV - Off Line								
1	200kVA x 3 Ph (1 off) - relocate	ea	0	0,00	0		0,00	0,00	0,00
2	200kVA x 3 Ph (1 off) - new	ea	0	0,00	0,00	0,00	0,00	0,00	0,00
3	100kVA x 3 Ph (2 off) - relocate	ea	0	0,00	0,00	0,00	0,00	0,00	0,00
4	100kVA x 3 Ph (2 off) - new	ea	0	0,00	0,00	0,00	0,00	0,00	0,00
5	50kVA x 3 Ph (0 off) - relocate	ea	0	0,00	0,00	0,00	0,00	0,00	0,00
6	50kVA x 3 Ph (0 off) - new	ea	0	0,00	0,00	0,00	0,00	0,00	0,00
7	32kVA x 2 Ph (0 off) - relocate	ea	0	0,00	0,00	0,00	0,00	0,00	0,00
8	32kVA x 2 Ph (0 off) - new	ea	3		3				
9	25kVA x 3 Ph (0 off) - relocate	ea	0	0,00	0,00	0,00	0,00	0,00	0,00
10	25kVA x 3 Ph (0 off) - new	ea	0	0,00	0,00	0,00	0,00	0,00	0,00
11	16kVA x 1 Ph (1 off) - relocate	ea	0	0,00	0,00	0,00	0,00	0,00	0,00
12	16kVA x 1 Ph (1 off) - new	e.a.	0	0,00	0,00	0,00	0,00	0,00	0,00
SUB-TOTAL									

	LV Protection Morsdorf type fuses	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	63 A	e.a.	0		0		0,00	0,00	0,00
2	80A Single phase (16kVA)	e.a.	0		0			0,00	0,00
3	80A 3 Dual phase (32kVA)	e.a.	3		3				
4	80A Three phase (50kVA)	e.a.	0		0		0,00	0,00	0,00
5	125A	e.a.	0		0		0,00	0,00	0,00
6	160A	e.a.	0		0		0,00	0,00	0,00
SUB-TOTAL									
L	Installation of Earthing	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	MV Earthing (Type 1 crowfoot)	e.a.	3		3				
2	LV Earthing (Type 1 crowfoot)	e.a.	5		5				
3	Bonding	e.a.	8		8				
SUB-TOTAL									
M	Pole Numbering	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	MV pole number	e.a.	22		22				
2	LV pole number	e.a.	62		62				
SUB-TOTAL									
N	Commissioning	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	Test & commission trsf and MV equipment	e.a.	-	-	3		0,00		
SUB-TOTAL							0,00		

O	Other	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	Link assembly (On-load) per phase	ea	2		2				
2	Link assembly (Off load) per phase	ea	0		0				
3	Drop-out fuses three phase	ea	0		0				
4	Drop-out fuses dual phase	ea	3		3				
5	Sample line /Material Board	sum	1		1				
6	CT/VT unit, incl meter box, links	ea	0		-		-	-	-
7	Remove existing poles	ea	-	-	-		-	-	-
8	Remove existing conductor	m	-	-	-		-	-	-
9	Remove existing transformer	ea	-	-	-		-	-	-
10	Remove existing dressing	ea	-	-	-		-	-	-
11	Disconnect existing connection	ea	-	-	-		-	-	-
12	Reconnect existing customer to new network	ea	-	-	-		-	-	-
13	Ant-clim device	ea	5		5				
14	Labeling of equipment	e.a.	5	-	5				
15	Tree felling (trunk diameter > 300mm)	ea	-		0		-	-	-
16	22kV Voltage Regulator	ea	1,00		1				
SUB-TOTAL									
P	House Connections	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	Underground connection (Trenches supplied by others)	ea	-		-		-	-	-
2	Overhead connection	ea	85		85				
3	Supply ECU base, fixing rails and plug	ea	85		85				
4	Supply 20A ECU (internal ELPU) Split PLC Type	ea	85		85				
5	Sealing of meters	ea	85		85				
6	COC certificates	ea	-		-		-	-	-
7	COC Certificate ECA version	ea	-		-		-	-	-
8	Supply and install additional 63A circuit breaker	ea	-		-		-	-	-
9	Marketing connections	ea	-		-		-	-	-
10	Capture and upload of customer data new & existing	ea	-		85		-		
11	GPS co-ordinates	ea	-		85		-		
SUB-TOTAL									

Q	Excavate and plant poles	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	5m Wood 80-100 mm tops	e.a.	10		10				
2	Rock Drill	e.a.	3	-	3		0,00		
3	Compressors	e.a.	2		2				
4	7m Wood 120-140 mm tops	e.a.	8		8				
5	Rock Drill	e.a.	5	-	5		0,00		
6	Compressors	e.a.	3		3				
7	Shackpole Dressing	e.a.	0		0		0,00	0,00	0,00
8	Rock Drill	e.a.	31		31		0,00		
9	Compressors	e.a.	0		0		0,00	0,00	0,00
SUB-TOTAL									
R	Conductor	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	4mm sq Airdac	m	0		0		0,00	0,00	0,00
2	10mm sq Airdac with 2 pilot wire	m	1800		1800				
SUB-TOTAL									
S	General	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	Community Liason Officer	Month	-	0,00	2				
2	Project Steering Committee	Month	-	0,00	2				
3	Payment of students	Month	-	0,00	2				
4	Provision for Live Work	e.a.	2		2				
5	Provision for CoW	Month	-	0,00	2				
SUB-TOTAL									

